



2nd MADEIRA training course

www.madeira-project.eu

Radiation Protection in Nuclear Medicine

17-20 November 2009

Malmö Sweden

- Detectors and dosimeters for radiation protection
- Radiobiology
- Calculations of radiation doses to patients
- Radiation doses to staff, measurements and calculations
- Shielding calculations
- Practical exercises on shielding, decontamination, radiation dose calculations
- Guided visit to Nuclear Medicine Departments at three different hospitals

For more information: www.med.lu.se/msf click "Course"

Radiation Protection in Nuclear Medicine

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	Tuesday 17/11	Wednesday 18/11	Thursday 19/11	Friday 20/11
09.00	Welcome The MADEIRA project	Meet the teachers (optional)	Meet the teachers (optional)	Meet the teachers (optional)
09.15	Quantities used in radiation protection (SM)	Radiation doses from patients (DZ)	Radiation protection during production, labelling and injection (SLS, LS)	Current research: Radiobiology of the lens of the eye (ICRP Cte 1) (GD)
10.00	Radiation protection detectors and dose meters (EF)	Radiation exposure of embryos, foetuses and children (MCC)	Occupational exposure (SK)	Quality assurance, reference activities
10.45	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
11.15	Radiobiology, Critical organs (patients and staff members) (PB)	Shielding, calculation exercises	Releases to environment from hospitals and patients (SM)	Questions and discussions Rules of the thumb
12.00	Effective dose Radiation doses to patients (AG, CH) -biokinetic models -phantoms	Shielding, computer exercises (HU)	An introduction to OLINDA (AG, SLS)	Course evaluation
12.45	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
14.00	Cont. Effective dose, Radiation doses to patients (AG, CH) -biokinetic models -phantoms	Visit to Bispebjerg Hospital and Herlev Hospital in Denmark Including lecture: An example of shielding in PET work (MNL)	Guided exercises: -on patient dose calculation, OLINDA (SLS) -practical exercises on shielding (^{99m} Tc vs ¹⁸ F) (MSb, MS) -decontamination (MSb, MS) -visit to Nuclear Medicine department UMAS (SLS, US)	
	15:00 Get together			
		18.00 End of day	18.00 End of day	

SPEAKERS

AG - Augusto Giussani, Helmholtz Zentrum München, Germany
 CH - Christoph Hoeschen, Helmholtz Zentrum München, Germany
 DZ - Dejan Zontar, Jozef Stefan Institut, Slovenia
 EF - Ernst Fritsch, ICRP Committee 1, Germany
 GD - Günter Dietze, ICRP Committee 1, Germany
 HU - Helena Uusijärvi, Lund University, Malmö, Sweden
 MCC - Marie Claire Cantone, Università degli Studi di Milano, Italy
 MNL - Markus Nowak Lonsdale, Bispebjerg Hospital, Denmark
 MS - Marie Sydoff, Lund University, Malmö, Sweden
 MSb - Marcus Söderberg, Lund University, Malmö, Sweden
 PB - Peter Bernhardt, Sahlgrenska University Hospital, Sweden
 SK - Sabah Krim, SKC.CEN, Mol, Belgium and FP7 ORAMED Consortium
 SLS - Sigrid Leide-Svegborn, Lund University, Malmö, Sweden
 SM - Sören Mattsson, Lund University, Malmö, Sweden
 US - Ulrika Svanholm, Malmö University Hospital, Sweden